WEST CARE
MEDICAL LTD

LEGENDAIR VENTILATOR

Mixed ventilator integrating pressure and volume modes for the treatment of most acute and chronical respiratory pathologies.

Ventilation Comfort

- Quick and reactive Flow trigger that permits a fast adaptation of the patient with the device (average reaction time of 75 ms once a trigger is detected; as tested with the active test lung IngMar Medical model ASL 5000).
- Quiet device (less than 30 dBA at 10 mbar).
- Adaptability of ventilation (small inertia of the turbine) for optimal synchronization of the patient during ventilation
- Possibility of setting a Target Vt and a Maximum pressure to attain it.
- Precise flow and pressure sensors with adjustable I and E triggers in pressure modes.

Oxygen enrichment and monitoring

The Legendair is equipped with an oxygen connection at the back such as the enrichment of Oxygen is taken into consideration in the total flow delivered to the patient. The FiO2 concentration can reach up to 50% of oxygen.

As an option, the Legendair offers the possibility to connect an oxygen cell on the outlet of air to measure and monitor directly on the display of the unit the FiO2 concentration delivered and eventually set minimum and maximum alarms levels.

Simplified maintenance

- Quick and easy access to all technical components
- Micro turbine with an expected 15000 hrs life time.
- RS 232 communication port for eventual software upgrade, online monitoring and memory retrieval (patient compliance and ventilation parameters) with the Airox communication Package software.
- Maintenance menu allowing several diagnosis and sensor calibration
- Technical even memorization and reading with direct display on the LCD screen.
- Display of patient and device hour meter on the screen

The Legendair has been conceived to be user friendly:

- Large LCD screen
- Display of all the parameters on one single page
- Dedicated menu for alarms and patient monitoring
- Possibility of changing the ventilation mode during ventilation
- Tutorial messages for the user
- Possibility of locking the parameters

Exhalation Vt Monitoring

As an option, the Legendair can integrate a monitoring function of the exhaled tidal volume of the patient:

- **With the adaptation of exhalation valves of different brands with different set ups.**
- **The exhalation kit is presented as a mono-block for an easy installation and disinfection**
- **With the reading of the exhaled tidal volume on the display and the settings of alarms**

Autonomy

The Legendair integrates a Li-ion internal battery (no memory effect) to provide a better portability of the device during ventilation; with an autonomy that can reach up to 11 hours. It is also equipped with a 24V connection for an eventual external battery.

Ergonomics

Developed in parallel with a specialized Designer, the Legendair is conceived to answer the requirements and needs of the patients and users.

- **Large integrated handle**
- **Small Size**
- **A light weight of 4.5 kg including the internal battery**
- **Optimization of the Display features.**
- **Easy and quick installation of the patient circuits.**

Target Vt

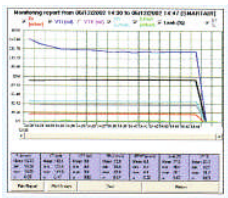
As pressure and flow are closely linked, we are looking at increasing the flow by progressively increasing the inspiration pressure without going above the maximum pressure limit settings.
To attain the target volume, the inspiration pressure increases or decreases by increments between the respiratory cycles. The modifications of the inspiration pressure are automatically done through a specific algorithm to obtain the target volume.
This method permits a quick reaction upon the detection of a disequilibrium with an optimum comfort for the patient due to the relatively small increments of increase and decrease in pressure.

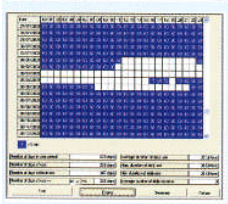
Part No.	Description
1094095700	LEGENDAIR Equiped with : power supply cable, user's manual, carrying bag
1094095900	LEGENDAIR *Double Branch* Equipped with: exhalation block, power supply cable, user's manual, carrying bag

SPECIFICATIONS

Medical Device Class	II
Weight	4.5 kg
Dimensions	H 154 x L 235 x W 315 mm
Power Supply	115/230 V +/-10 % - 50/60 Hz
Isolation Class	II
Consumption	80 VA nominal and 90 VA Maxi
External batteries	24 V connection
Internal batteries	Lithium Ion quick charge. 6 to 11 hours autonomy

Airox communication software





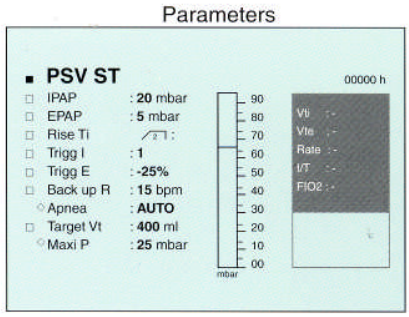
The Airox communication software package is a complete and comprehensive PC software for the Legendair, Twinair and all Smartair ventilators (S, ST and Plus.) The main functions of this software are:

- **Memory download reading: once downloaded, the memory can be treated to obtain patient compliance and usage data along with listings and statistics on all saved events. Useful medical and technical reports and summaries can be printed from this menu.**
- **Patient and machine database**
- **Monitoring: this enables online monitoring of pressure and flow curves with online reading of ventilation parameters (inspiratory, expiratory and total time, tidal volume, I/T ratio, rat, pressure…) you can also save this monitoring to obtain statistics of ventilation over a given selected time.**

108-17 FAWCETT ROAD COQUITLAM BRITISH COLUMBIA V3K 6V2 TEL 604 540-8288 FAX 604 540-8245

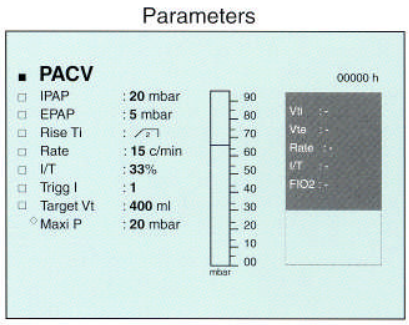
SETTINGS IN PSV / PSV ST MODE

IPAP (inspiratory pressure)	5 - 40
EPAP (expiratory pressure)	0 - 20
Inspiratory ramp (Rise time)	4 Levels
Inspiratory trigger	5 Levels
Exhalation trigger	- 15 to - 75% of decrease from peak flow
Minimum rate	4 – 40
Apnea Time	3 – 30 s
Target VT	50 – 1400 ml
Maximum pressure (to reach Target Vt)	8 to 55 mbar (limited to + 3 to +15 of IPAP)
Monitoring	Vti, Vte, Rate, I/T Ratio, FiO2, IPAP, EPAP and patient triggering



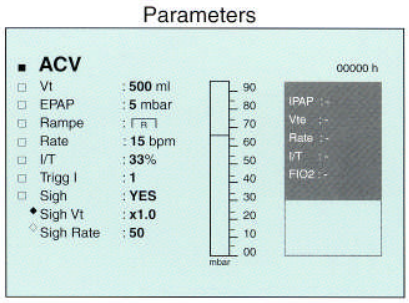
SETTINGS IN PCV/PACV MODE

IPAP (inspiratory pressure)	5 - 40
EPAP (expiratory pressure)	0 - 20
Inspiratory ramp (Rise time)	4 Levels
Minimum rate	5 – 60
I/T Ratio	50 to 25%
Inspiratory trigger	5 Levels
Target VT	50 – 1400 ml
Maximum pressure (to reach Target Vt)	8 to 55 mbar (limited to + 3 to +15 of IPAP)
Monitoring	Vti, Vte, Rate, I/T Ratio, FiO2, IPAP, EPAP and patient triggering



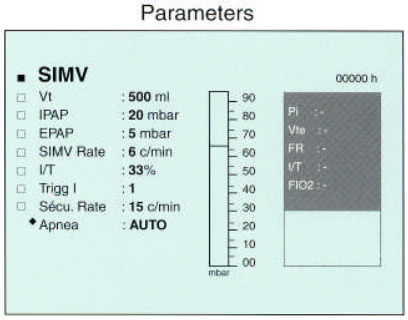
SETTINGS IN CV/ACV MODE

Tidal Volume	50 – 1400 ml
EPAP (expiratory pressure)	0 - 10
Flow ramp	Rectangular or Decelerated
Minimum rate	5 – 60
I/T ratio	50 to 25%
Inspiratory trigger	5 Levels
Sigh	Yes / No Vt : from 1,0 to 2,0 of set Vt Rate : 50 to 250
Monitoring	IPAP,EPAP,Vti, Vte, I/T, FiO2 and patient triggering



SETTINGS IN SIMV MODE

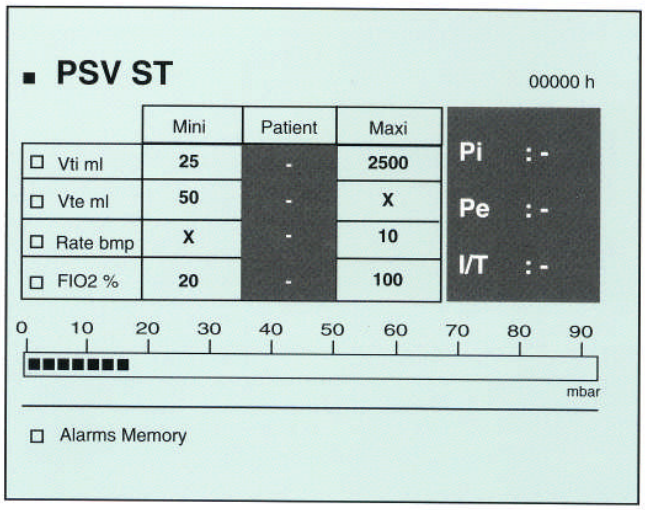
Tidal Volume	50 – 1400 ml
IPAP (inspiratory pressure)	5 - 40
EPAP (expiratory pressure)	0 - 20
SIMV Rate	2 - 20
I/T Ratio	50 to 25%
Inspiratory trigger	5 Levels
Security rate	4 - 40
Apnea Time	3 – 30 s
Monitoring	IPAP,EPAP,Vti, Vte, I/T, FiO2 and patient triggering



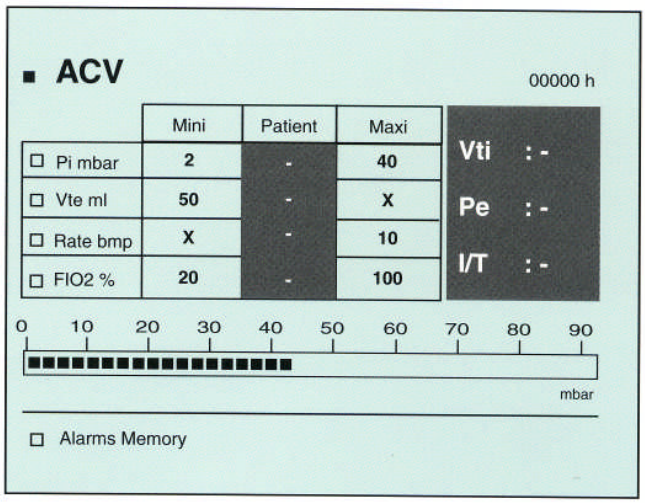
Alarms and monitoring menu

The **LEGENDAIR®** offers complete and comprehensive alarm screens
- Settings of minimum and maximum alarm values
- Display of the real measured ventilation values in the active cycles
- Display of the active alarm in a specific window
- Reading of the last 9 stored alarm messages with date and hour stamp
- All alarms are stored in the memory for an eventual retrieval with the Airox communication software package

ALARMS AND MONITORING SCREEN



ALARMS AND MONITORING SCREEN



The LEGENDAIR® can be used in :

- . Home care
- . Long term acute care
- . Weaning
- . Transport
- . Adults and infants
- . Intermediate care
- . Pulmonology departments